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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	10/734,548
Filing Date	December 12, 2003
First Named Inventor	Shyam S. Mohapatra
Art Unit	1642
Examiner Name	
Attorney Docket Number	USF-T187XC1

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**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number - Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/DS/	U1	US-2003/0148989 A1	08-07-2003	Bennett et al.	All
	U2	US-2002/0165158 A1	11-07-2002	King	All
	U3	US-2003/0068333 A1	04-10-2003	Mohapatra et al.	All
	U4	US-6,489,306 B2	12-03-2002	Mohapatra et al.	All
	U5	US-5,783,405	07-21-1998	Mochly-Rosen et al.	All
	U6	US-5,621,101	04-15-1997	Lewis et al.	All
	U7	US-5,621,098	04-15-1997	Heath, Jr. et al.	All
	U8	US-5,616,577	04-01-1997	Nambi et al.	All
/DS/	U9	US-5,578,590	11-26-1996	Grunicke al.	All

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
/DS/	F1	WO 94/29455 A1	12-22-1994	Institut National de la Sante et de la Recherche Medicale	Abstract	
/DS/	F2	WO 93/20101 A1	10-14-1993	Glaxo S.A.	All	
	F3					
	F4					
	F5					

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/DS/	U10	US-5,545,636	08-13-1996	Heath, Jr. et al.	All
	U11	US-5,491,242	02-13-1996	Gillig et al.	All
	U12	US-5,488,167	01-30-1996	Hudlicky	All
	U13	US-5,481,003	01-02-1996	Gillig et al.	All
	U14	US-5,461,146	10-24-1995	Lewis et al.	All
	U15	US-5,270,310	12-14-1993	Bell et al.	All
	U16	US-5,216,014	06-01-1993	Jiang et al.	All
	U17	US-5,204,370	04-20-1993	Jiang et al.	All
	U18	US-5,141,957	08-25-1992	Jiang et al.	All
	U19	US-4,990,519	02-05-1991	Jones et al.	All
/DS/	U20	US-4,937,232	06-26-1990	Bell et al.	All

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**NON PATENT LITERATURE DOCUMENTS**

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/DS/	R1	BITKO, V. and BARIK, S. "Persistent activation of RelA by respiratory syncytial virus involves protein kinase C, underphosphorylated I $\kappa$ B $\beta$ , and sequestration of protein phosphatase 2A by the viral phosphoprotein" <i>J. Virol.</i> , 1998, 72:5610-5618.	
	R2	BITKO, V. <i>et al.</i> "Transcriptional induction of multiple cytokines by human respiratory syncytial virus requires activation of NF- $\kappa$ B and is inhibited by sodium salicylate and aspirin" <i>Virology</i> , 1997, 232:369-378.	
	R3	BROWN, G. <i>et al.</i> "Respiratory syncytial virus assembly occurs in GM1-rich regions of the host-cell membrane and alters the cellular distribution of tyrosine phosphorylated caveolin-1" <i>J. Gen. Virol.</i> , 2002, 83:1841-1850.	
	R4	BROWN, G. <i>et al.</i> "Caveolin-1 is incorporated into mature respiratory syncytial virus particles during virus assembly on the surface of virus-infected cells" <i>J. Gen. Virol.</i> , 2002, 83:611-621.	
	R5	BUDGE, P. <i>et al.</i> "RhoA-derived peptide dimmers share mechanistic properties with other polyanionic inhibitors of respiratory syncytial virus (RSV), including disruption of viral attachment and dependence on RSV G" <i>J. Virol.</i> , 2004, 78:5015-5022.	
	R6	CARPENTER, L. <i>et al.</i> "Respiratory syncytial virus and TNF $\alpha$ induction of chemokine gene expression involves differential activation of Rel A and NF- $\kappa$ B" <i>BMC Infect. Dis.</i> , 2002, 2(1):5.	
	R7	CHEN, W. <i>et al.</i> "Activation of ERK2 by respiratory syncytial virus in A549 cells is linked to the production of interleukin 8" <i>Exp. Lung Res.</i> , 2000, 26:13-26.	
	R8	CONSTANTINESCU, S. <i>et al.</i> "Effects of protein kinase C inhibitors on viral entry and infectivity" <i>FEBS</i> , 1991, 292:31-33.	
	R9	DISATNIK, M-H. <i>et al.</i> "Sequential activation of individual PKC isozymes in integrin-mediated muscle cell spreading: a role for MARCKS in an integrin signaling pathway" <i>J. Cell. Sci.</i> , 2002, 115:2151-2163.	
	R10	DUNCAN, M. <i>et al.</i> "Microbial entry through caveolae: variations on a theme" <i>Cell. Microbiol.</i> , 2002, 4:783-791.	
	R11	EICHHOLTZ, T. <i>et al.</i> "A myristoylated pseudosubstrate peptide, a novel protein kinase C inhibitor" <i>J. Biol. Chem.</i> , 1993, 268:1982-1986.	
	R12	GODSON, C. <i>et al.</i> "Inhibition of expression of protein kinase C $\alpha$ by antisense cDNA inhibits phorbol ester-mediated Arachidonate release" <i>J. Biol. Chem.</i> , 1993, 268:11946-11950.	
/DS/	R13	GOWER, T. <i>et al.</i> "RhoA is activated during respiratory syncytial virus infection" <i>Virol.</i> , 2001, 283:188-196.	

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		Filing Date	December 12, 2003		
		First Named Inventor	Shyam S. Mohapatra		
		Group Art Unit	1642		
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Sheet	4	of	7	Attorney Docket Number	USF-T187XC1

NON PATENT LITERATURE DOCUMENTS			
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/DS/	R14	HALLAK, L.K. <i>et al.</i> "Glycosaminoglycan sulfation requirements for respiratory syncytial virus infection" <i>J. Virol.</i> , 2000, 74:10508-10513.	
	R15	HANNUN, Y. <i>et al.</i> "The adriamycin-iron(III) complex is a potent inhibitor of protein kinase C" <i>J. Biol. Chem.</i> , 1989, 264:9960-9966.	
	R16	HANNUN, Y. <i>et al.</i> "Aminoacridines, potent inhibitors of protein kinase C" <i>J. Biol. Chem.</i> , 1988, 263:5124-5131.	
	R17	HARRIS, T. <i>et al.</i> "A myristoylated pseudosubstrate peptide inhibitor of protein kinase C: effects on glucose- and carbachol-induced insulin secretion" <i>Mol. Cell. Endocrin.</i> , 1996, 121:133-141.	
	R18	KONG, X. <i>et al.</i> "Respiratory syncytial virus infection activates STAT signaling in human epithelial cells" <i>Biochem. Biophys. Res. Comm.</i> , 2003, 306:616-622.	
	R19	KONG, X. <i>et al.</i> "ERK-1/2 activity is required for efficient RSV infection" <i>FEBS Letters</i> , 2004, 559:33-38.	
	R20	LEHEL, C. <i>et al.</i> "A chemiluminescent microtiter plate assay for sensitive detection of protein kinase activity" <i>Anal. Biochem.</i> , 1997, 244:340-346.	
	R21	LEVESQUE, L. <i>et al.</i> "Antisense oligonucleotides targeting human protein kinase C- $\alpha$ inhibit phorbol ester-induced reduction of bradykinin-evoked calcium mobilization in A549 cells" <i>Molecul. Pharmacol.</i> , 1997, 51:209-216.	
	R22	LIEBMANN, C. <i>et al.</i> "Regulation of MAP kinase activity by peptide receptor signalling pathway: Paradigms of multiplicity" <i>Cell. Signalling</i> , 2001, 13:777-785.	
	R23	LU, Z. <i>et al.</i> "Activation of protein kinase C triggers its ubiquitination and degradation" <i>Molec. Cell. Biol.</i> , 1998, 18:839-845.	
	R24	MALLADI, V. <i>et al.</i> "Enteropathogenic <i>Escherichia coli</i> outer membrane proteins induce changes in cadherin junctions of Caco-2 cells through activation of PKC $\alpha$ " <i>Microbes and Infect.</i> , 2004, 6:38-50.	
	R25	MARTINEZ, I. and MELERO, J. "Binding of human respiratory syncytial virus to cells: implication of sulfated cell surface proteoglycans" <i>J. Gen. Virol.</i> , 2000, 81:2715-2722.	
/DS/	R26	MCCURDY, L. and GRAHAM, B. "Role of plasma membrane lipid microdomains in respiratory syncytial virus filament formation" <i>J. Virol.</i> , 2003, 77:1747-1756.	

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/DS/	R27	MEIER, O. <i>et al.</i> "Adenovirus triggers macropinocytosis and endosomal leakage together with its clathrin-mediated uptake" <i>J. Cell Biol.</i> , 2002, 158:1119-1131.		
	R28	MESSING, R.O. <i>et al.</i> "Chronic ethanol exposure increases levels of protein kinase C $\delta$ and $\epsilon$ and Protein kinase C-mediated phosphorylation in cultured neural cells" <i>J. Biol. Chem.</i> , 1991, 266:23428-23432.		
	R29	MINEO, C. and ANDERSON, R. "Potocytosis" <i>Histochem. Cell Biol.</i> , 2001, 116:109-118.		
	R30	MOCHLY-ROSEN, D. and GORDON, A. "Anchoring proteins for protein kinase C: a means for isozyme selectivity" <i>FASEB J.</i> , 1998, 12:35-42.		
	R31	MONICK, M. <i>et al.</i> "Respiratory syncytial virus infection results in activation of multiple protein kinase C isoforms leading to activation of mitogen-activated protein kinase" <i>J. Immun.</i> , 2001, 166:2681-2687.		
	R32	NAKANO, M. <i>et al.</i> "The first step of adenovirus type 2 disassembly occurs at the cell surface, independently of endocytosis and escape to the cytosol" <i>J. Virol.</i> , 2000, 74:7085-7095.		
	R33	NARANATT, P. <i>et al.</i> "Kaposi's sarcoma-associated herpesvirus induces the phosphatidylinositol 3-kinase-PKC- $\zeta$ -MEK-ERK signaling pathway in target cells early during infection: implications for infectivity" <i>J. Virol.</i> , 2003, 77:1524-1539.		
	R34	PAREKH, D. <i>et al.</i> "Multiple pathways control protein kinase C phosphorylation" <i>The EMBO J.</i> , 2000, 19:496-503.		
	R35	PELKMANS, L. <i>et al.</i> "Local actin polymerization and dynamin recruitment in SV40-induced internalization of caveolae" <i>Science</i> , 2002, 296:535-539.		
	R36	PREVOSTEL, C. <i>et al.</i> "Protein kinase C $\alpha$ actively downregulates through caveolae-dependent traffic to an endosomal compartment" <i>J. Cell Sci.</i> , 2000, 113:2575-2584.		
	R37	RAZINKOV, V. <i>et al.</i> "RFI-641 inhibits entry of respiratory syncytial virus via interactions with fusion protein" <i>Chem. &amp; Biol.</i> , 2001, 8:645-659.		
	R38	ROOT, C. <i>et al.</i> "Entry of influenza viruses into cells is inhibited by a highly specific protein kinase C inhibitor" <i>J. Gen. Virol.</i> , 2000, 81:2697-2705.		
/DS/	R39	SAN-JUAN, H. <i>et al.</i> "Activation of PKC isozymes in normal human bronchial epithelial cells by respiratory syncytial virus infection" <i>J. Allergy Clin. Immunol.</i> , 2002, 109(1):S362, abstract no. 1128.		

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/DS/	R40	SIECZKARSKI, S. <i>et al.</i> "Role of protein kinase C $\beta$ II in influenza virus entry via late endosomes" <i>J. Virol.</i> , 2003, 77:460-469.	
	R41	SIMOE, E. "Respiratory syncytial virus infection" <i>The Lancet</i> , 1999, 354:847-852.	
	R42	SOH, J-W. <i>et al.</i> "Novel roles of specific isoforms of protein kinase C in activation of the c-fos serum response element" <i>Molec. Cell. Biol.</i> , 1999, 19:1313-1324.	
	R43	SUKUMARAN, S. and PRASADARAO, N. "Regulation of protein kinase C in <i>Escherichia coli</i> K1 invasion of human brain microvascular endothelial cells"	
	R44	TECHAARPORNKUL, S. <i>et al.</i> "Functional analysis of recombinant respiratory syncytial virus deletion mutants lacking the small hydrophobic and/or attachment glycoprotein gene" <i>J. Virol.</i> , 2001, 75:6825-6834.	
	R45	TOULLEC, D. <i>et al.</i> "The bisindolylmaleimide GF 109203X is a potent and selective inhibitor of protein kinase C" <i>J. Biol. Chem.</i> , 1991, 266:15771-15781.	
	R46	URBACH, V. <i>et al.</i> "Cellular mechanisms for apical ATP effects on intracellular pH in human bronchial epithelium" <i>J. Physiol.</i> , 2002, 543.1:13-21.	
	R47	VANDERPLASSCHEN, A. <i>et al.</i> "Intracellular and extracellular vaccinia virions enter cells by different mechanisms" <i>J. Gen. Virol.</i> , 1998, 79:877-887.	
	R48	VANDERPLASSCHEN, A. and SMITH, G. "A novel virus binding assay using confocal microscopy: demonstration that the intracellular and extracellular vaccinia virions bind to different cellular receptors" <i>J. Virol.</i> , 1997, 71:4032-4041.	
	R49	VILLALBA, M. <i>et al.</i> "Vav1/Rac-dependent actin cytoskeleton reorganization is required for lipid raft clustering in T cells" <i>J. Cell Biol.</i> , 2001, 155:331-338.	
	R50	WAGNER, S. <i>et al.</i> "Analysis of the subcellular distribution of protein kinase C $\alpha$ using PKC-GFP fusion proteins" <i>Exp. Cell Res.</i> , 2000, 258:204-214.	
	R51	WANASKI, S. <i>et al.</i> "Caveolin Scaffolding region and the membrane binding region of Src form lateral membrane domains" <i>Biochem.</i> , 2003, 42:42-56.	
/DS/	R52	WANG, Y. <i>et al.</i> "Metabolic stress opens K <sup>+</sup> channels in hepatoma cells through a Ca <sup>2+</sup> - and protein kinase C $\alpha$ -dependent mechanism" <i>J. Biol. Chem.</i> , 1996, 271:18107-18113.	

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	10/734,548
Filing Date	December 12, 2003
First Named Inventor	Shyam S. Mohapatra
Group Art Unit	1642
Examiner Name	
Attorney Docket Number	USF-T187XC1

Sheet

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**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/DS/	R53	WYATT, T. <i>et al.</i> "Stimulation of protein kinase C activity by tumor necrosis factor- $\alpha$ in bovine bronchial epithelial cells" <i>Am. J. Physiol.</i> , 1997, 273:L1007-1013.	
	R54	AHMAD, S. <i>et al.</i> "Antisense expression of protein kinase Ca inhibits the growth and tumorigenicity of human glioblastoma cells" <i>Neurosurg.</i> , 1994, 35:904-908.	
	R55	ANDERSON, R.G.W. "The caveolae membrane" <i>Ann. Rev. Biochem.</i> , 1998, 67:199-225.	
	R56	CHAKRAVARTHY, B.R. <i>et al.</i> "The direct measurement of protein kinase C (PKC) activity in isolated membranes using a selective peptide substrate" <i>Anal. Biochem.</i> , 1991, 196:144-150.	
	R57	HIDAKA, H. <i>et al.</i> "Isoquinolinesulfonamides, novel and potent inhibitors of cyclic nucleotide dependent protein kinase and protein kinase C" <i>Biochemistry</i> , 1984, 23:5036-5041.	
	R58	KITANO, T. <i>et al.</i> "Assay and purification of protein kinase C" <i>Meth. Enzymol.</i> , 1986, 124:349-352.	
	R59	KOBAYASHI, E. <i>et al.</i> "Calphostin C (UCN-1028C), a novel microbial compound, is a highly potent and specific inhibitor of protein kinase C" <i>Biochem. Biophys. Res. Commun.</i> , 1989, 159(2):548-553.	
	R60	MEYER, T. <i>et al.</i> "A derivative of staurosporine (CGP 41 251) shows selectivity for protein kinase C inhibition and <i>in vitro</i> anti-proliferative as well as <i>in vivo</i> anti-tumor activity" <i>Int. J. Cancer</i> , 1989, 43:851-856.	
	R61	SCHECHTMAN, D. and MOCHLY-ROSEN, D. "Isozyme-specific inhibitors and activators of protein kinase C" <i>Methods Enzymol.</i> , 2002, 345:470-489.	
	R62	SOUROUJON, M.C. and MOCHLY-ROSEN, D. "Peptide modulators of protein-protein interactions in intracellular signaling" <i>Nat. Biotechnol.</i> , 1998, 16:919-924.	
/DS/	R63	TAMAOKI, T. <i>et al.</i> "Staurosporine, a potent inhibitor of phospholipids/Ca <sup>++</sup> dependent protein kinase" <i>Biochem. Biophys. Res. Commun.</i> , 1986, 135(2):397-402.	
	R64		
	R65		

Examiner  
Signature

/Dana Shin/

Date  
Considered

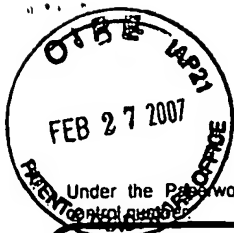
/Dana Shin/

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	10/734,548
Filing Date	December 12, 2003
First Named Inventor	Shyam S. Mohapatra
Group Art Unit	1635
Examiner Name	Dana H. Shin
Attorney Docket Number	USF-T187XC1

Sheet 1 of 1

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/DS/	R1	BEHERA, A.K. <i>et al.</i> "Blocking intercellular adhesion molecule-1 on human epithelial cells decreases respiratory syncytial virus infection" <i>Biochem. Biophys. Res. Comm.</i> , 2001, 280:188-195.	
/DS/	R2	SAN-JUAN-VERGARA, H. <i>et al.</i> "Protein kinase C- $\alpha$ activity is required for respiratory syncytial virus fusion to human bronchial epithelial cells" <i>J. Virol.</i> , 2004, 78:13717-13726.	
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Examiner Signature	/Dana Shin/	Date Considered	03/09/2007
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